

Coastal Storm, Coastal Flooding Strong Winds, Heavy Rainfall

Decision Support Briefing # 2
As of: 4 PM Friday, November 5,
2021

Briefing applies to the
Morehead City/Newport, NC
Area Only








What Has Changed?
Coastal Flood Watch Issued
Coastal Flood Advisories Issued
High Surf Advisory Issued
High Wind Warning/Advisory Issued

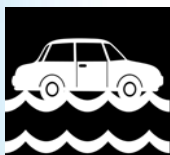




Main Points

Hazard	Impacts	Location	Timing
Coastal Flooding 	<p>Moderate to Major inundation: Water levels 2-4 ft agl flooding low lying roadways, parking lots, and properties.</p> <p>Minor inundation with water levels 1-2 ft agl flooding very low lying areas immediately adjacent to the water.</p>	<p>Moderate to Major inundation: Downeast Carteret County, areas along the lower Neuse River, and OBX south of Cape Hatteras.</p> <p>Minor inundation: Other areas adjacent to the southern Pamlico Sound the along the coast south of Cape Lookout.</p>	<p>Saturday through Monday morning.</p>
Ocean Overwash 	<p>Significant overwash expected. Could impact travel along NC 12 and properties immediately adjacent to the beach.</p>	<p>Most severe overwash impacts on Hatteras Island, but impacts also possible on Ocracoke Island, Core Banks, and the Northern OBX.</p>	<p>Saturday through at least early next week.</p>
Wind 	<p>Scattered power outages or small limbs down.</p>	<p>Mainly along the coast. Strongest winds along the Outer Banks to Downeast Carteret.</p>	<p>Late Saturday through Sunday evening.</p>
Heavy Rainfall 	<p>Localized flash flooding possible.</p>	<p>Mainly along the coast.</p>	<p>Late Saturday through Sunday.</p>
Marine 	<p>Dangerous seas and strong, Gale force winds. Storm Force winds possible.</p>	<p>Most coastal waters, sounds, and rivers.</p>	<p>Late Saturday through Monday morning.</p>

Summary of Greatest Impacts



Coastal Flooding: See Maps to Follow

None

Limited

Elevated

Significant

Extreme



Marine: All Marine Areas

None

Limited

Elevated

Significant

Extreme



Winds: Coastal Areas

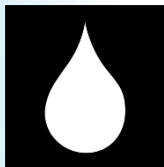
None

Limited

Elevated

Significant

Extreme



Heavy Rainfall Flooding: Coastal Areas

None

Limited

Elevated

Significant

Extreme



Coastal Flooding

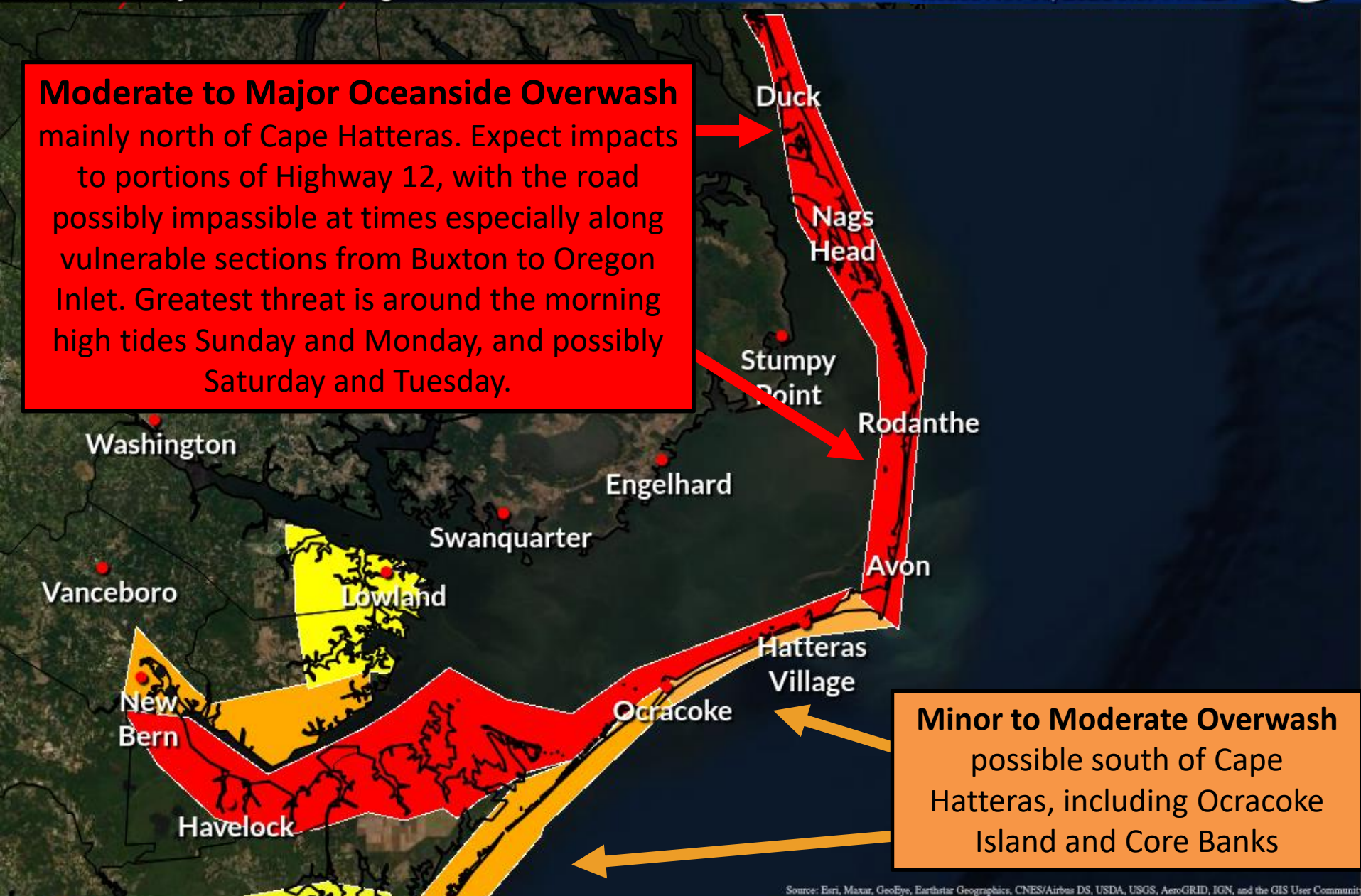
Moderate to Major Coastal Flooding Possible

Weather Forecast Office
Newport/Morehead City, NC

Issued Nov 05, 2021 3:37 PM EDT



Moderate to Major Oceanside Overwash mainly north of Cape Hatteras. Expect impacts to portions of Highway 12, with the road possibly impassible at times especially along vulnerable sections from Buxton to Oregon Inlet. Greatest threat is around the morning high tides Sunday and Monday, and possibly Saturday and Tuesday.



Minor to Moderate Overwash possible south of Cape Hatteras, including Ocracoke Island and Core Banks

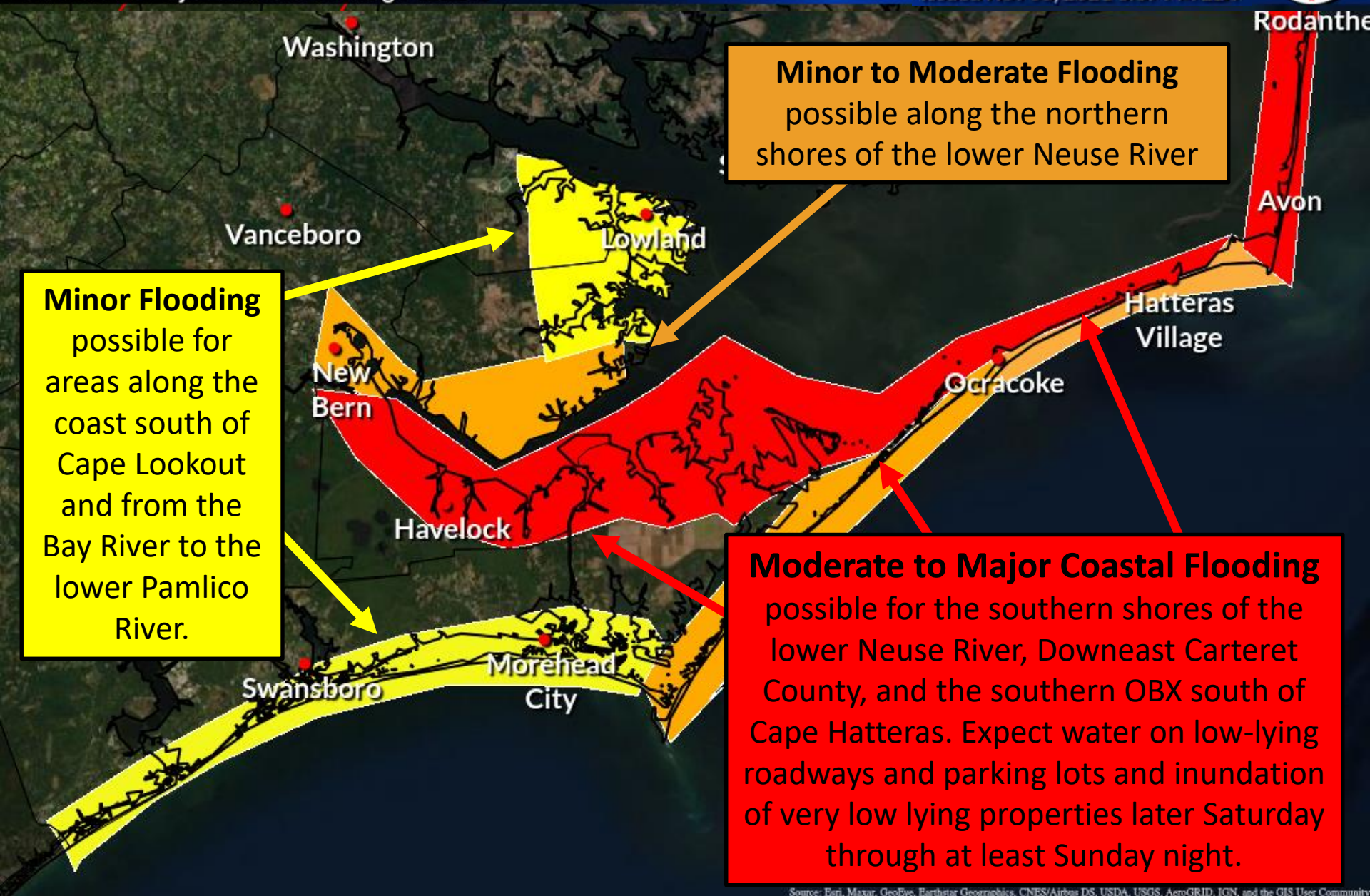
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flooding

Moderate to Major Coastal Flooding Possible

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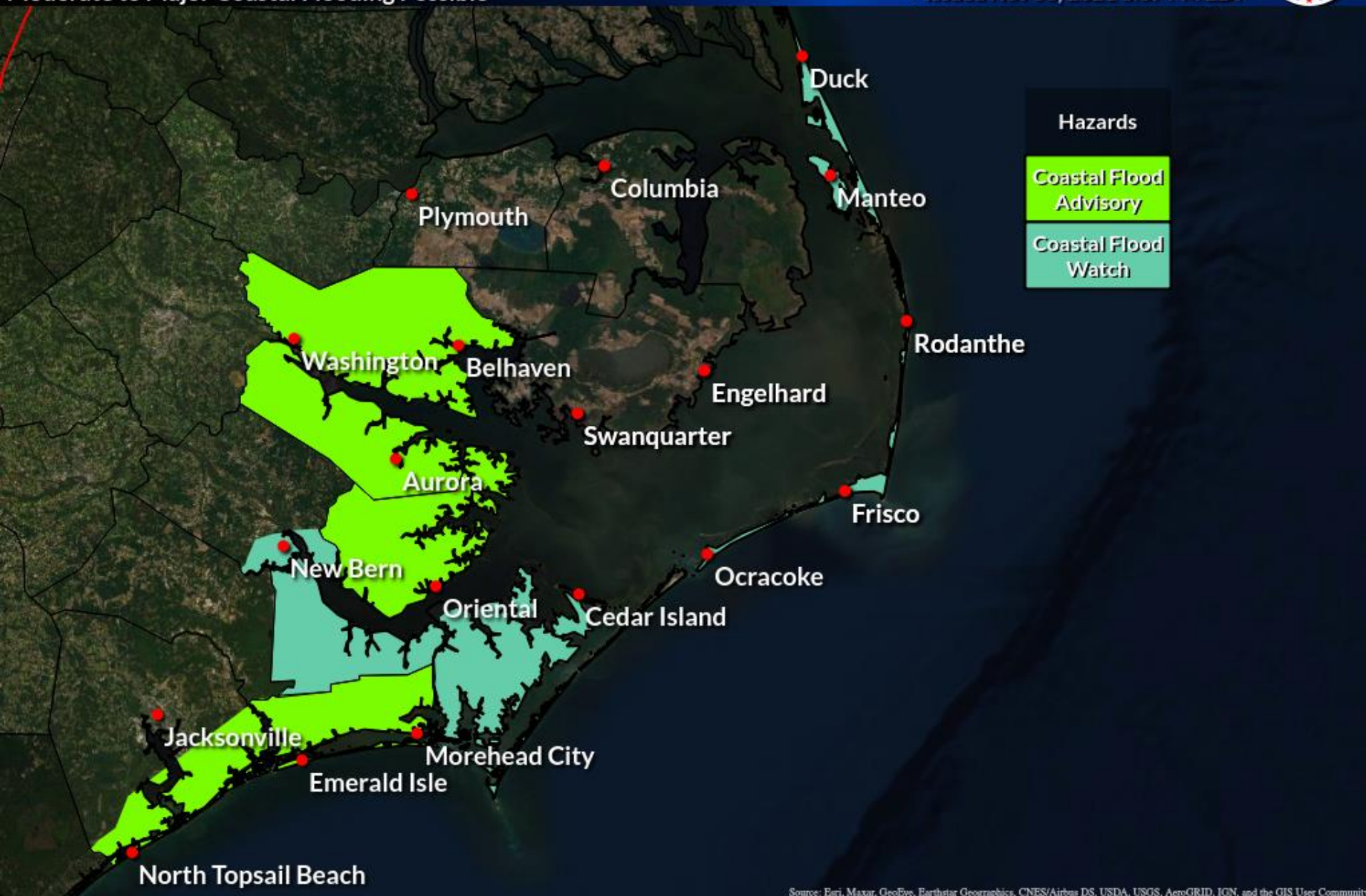
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coastal Flooding Expected

Moderate to Major Coastal Flooding Possible

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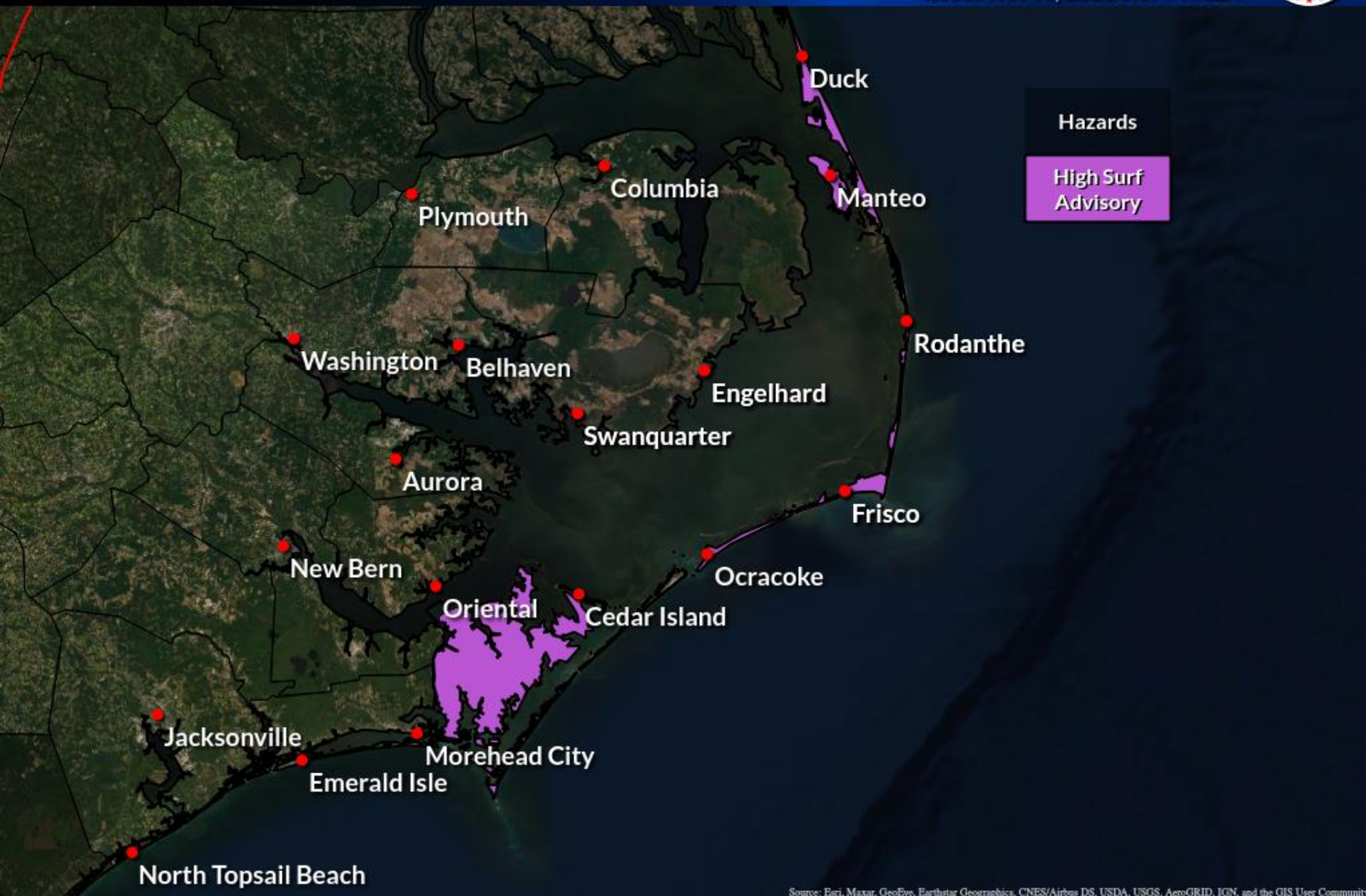


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Ocean Overwash and Rough Surf Expected

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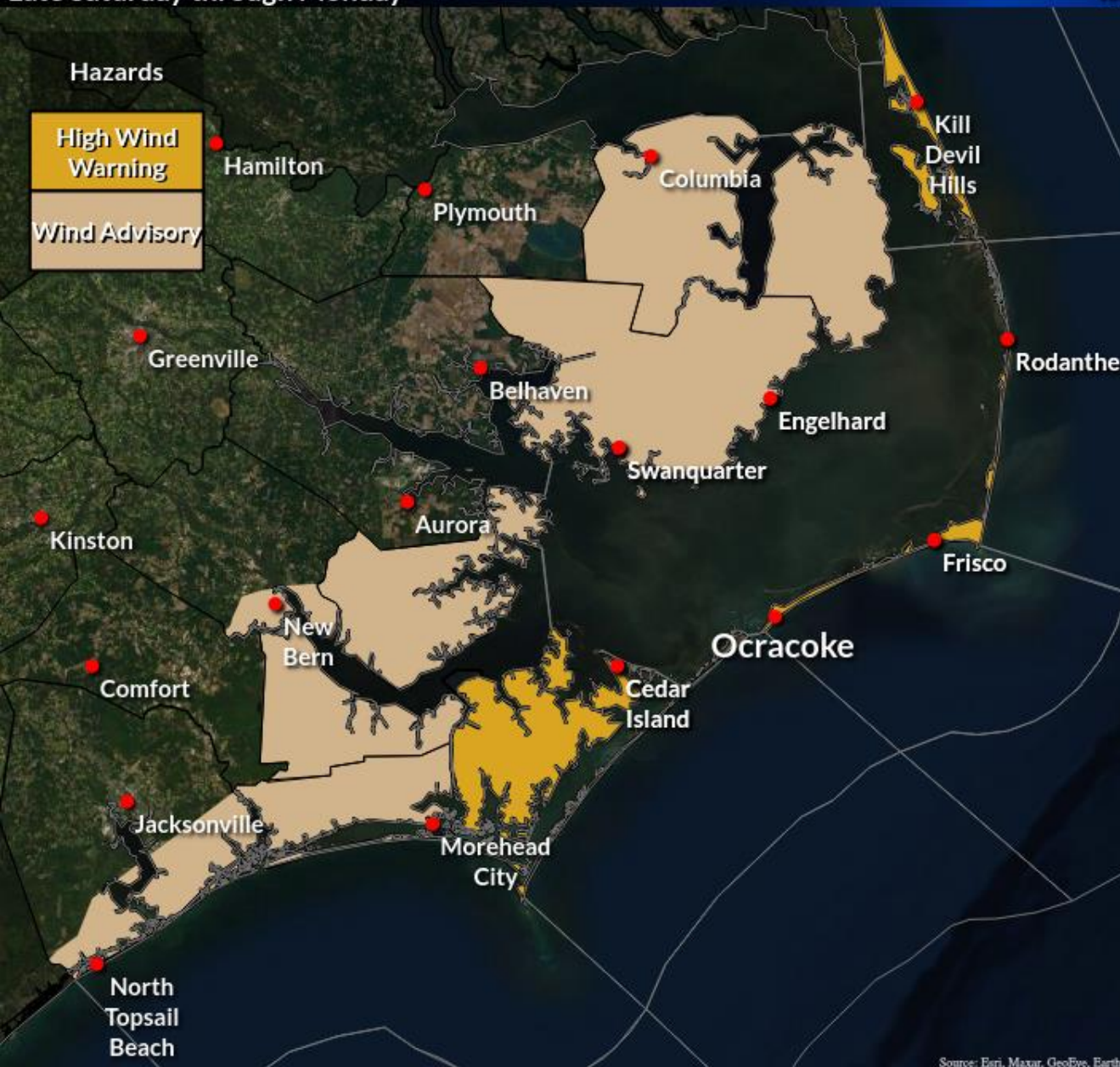
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

High Wind Warnings/Advisories

Late Saturday through Monday

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- **High Wind Warning**
55+ mph
- **Wind Advisory**
45 – 55 mph

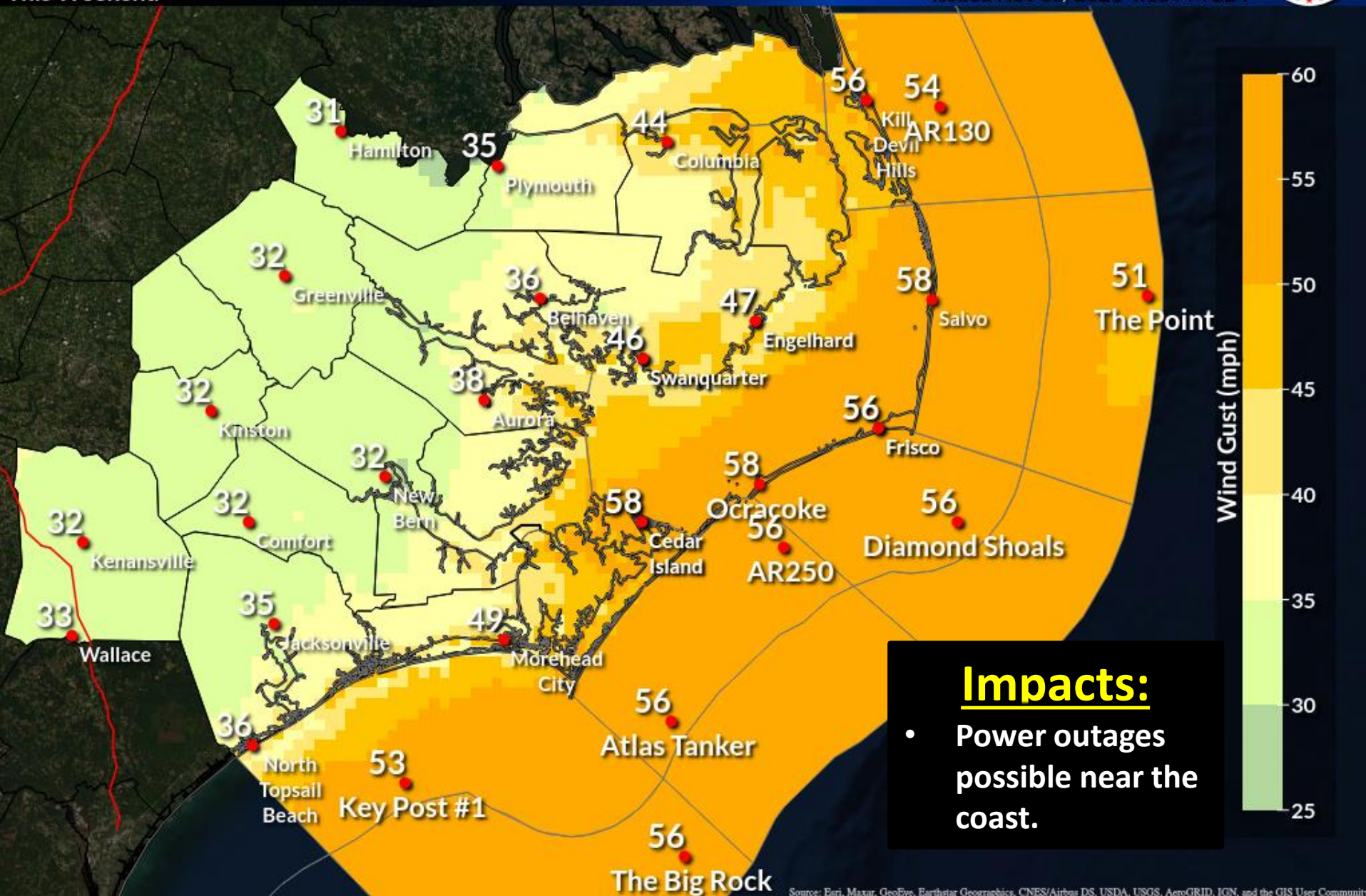
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Peak Wind Gusts

This Weekend

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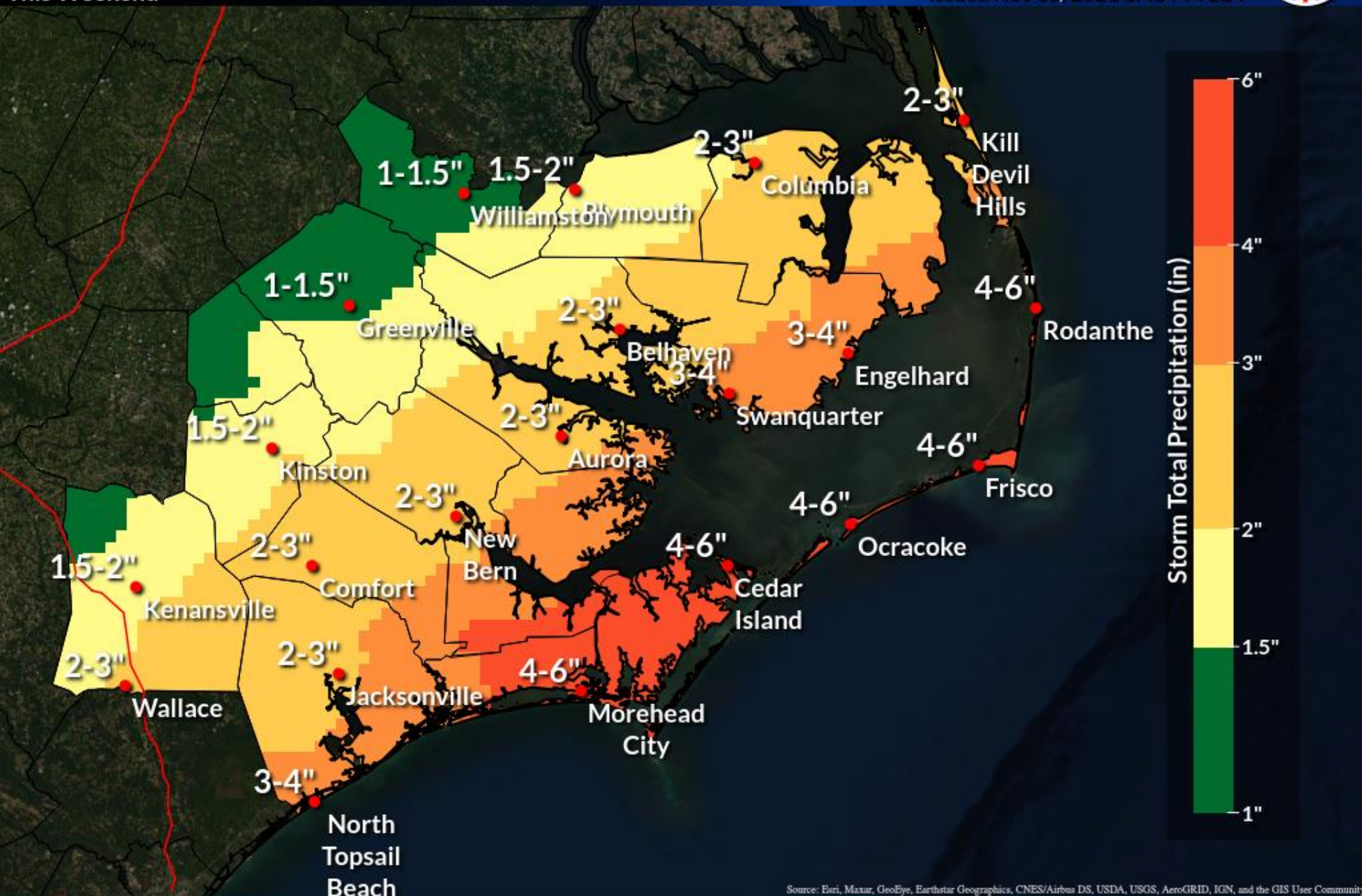
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Storm Total Rainfall

This Weekend

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Newport/Morehead City, NC

Issued Nov 05, 2021 3:43 PM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Peak Wave Heights

Late Saturday through Monday

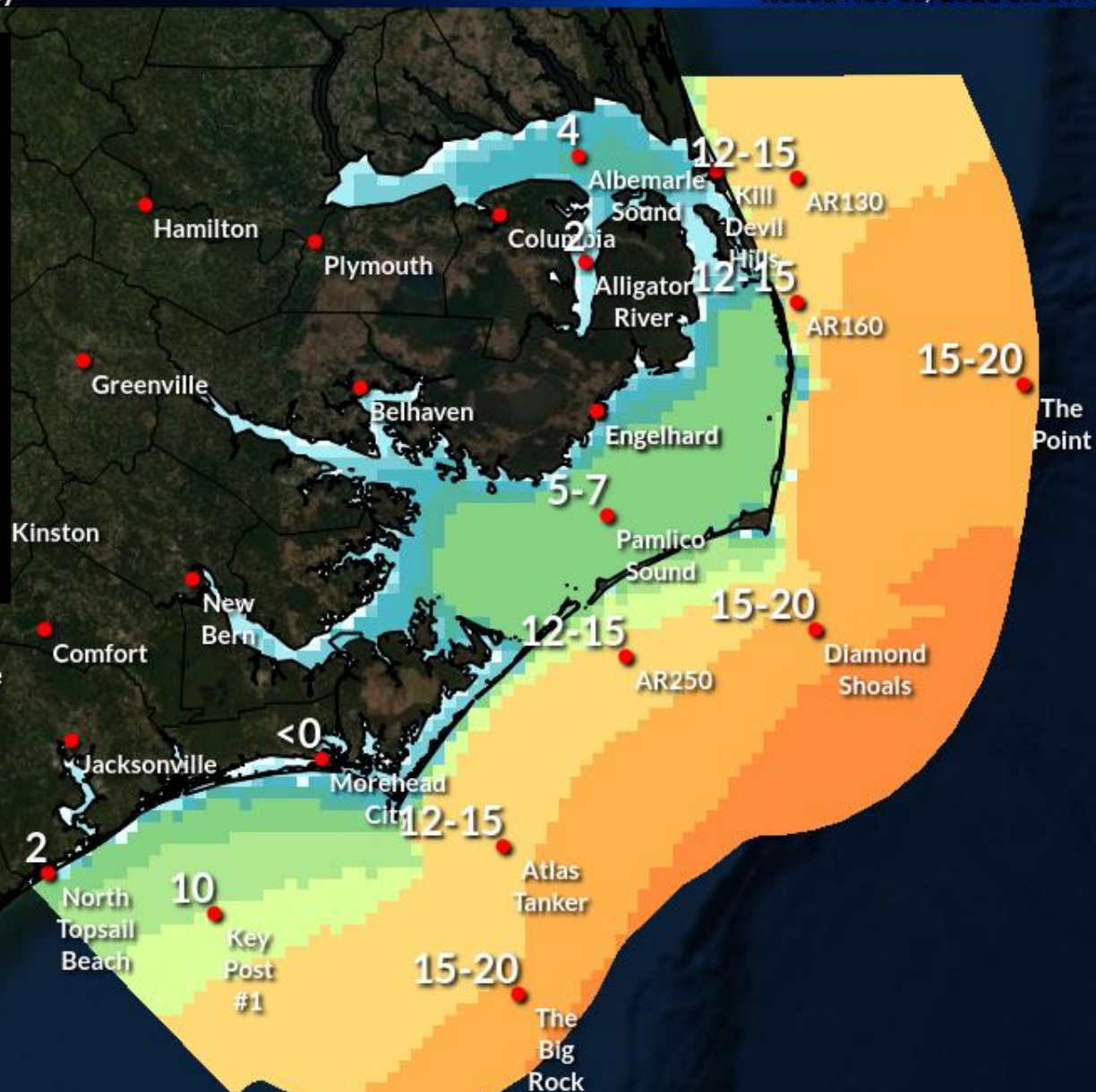
Weather Forecast Office
Newport/Morehead City, NC

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Impacts:

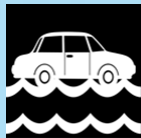
- 15 to 20 foot waves in the surf zone
- Dangerous surf, beach erosion



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Event Summary

- ✓ Confidence is **HIGH** that this event will occur, and we are expecting **moderate to major** impacts

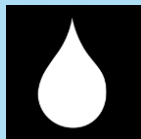


Ocean Overwash: Moderate to major north of Cape Hatteras, minor to moderate Cape Hatteras to Cape Lookout. Portions of Hwy 12 could be impassible at times, especially around the time of the morning high tides.

Coastal Flooding: Moderate to Major adjacent to the southern Pamlico Sound, minor along the coast south of Cape Lookout. Very low-lying roads and properties flooded.



Strong Winds: Wind gusts to 45 to 60 mph along the coast could bring scattered power outages. Strongest winds Downeast Carteret through the Outer Banks.



Heavy Rainfall: Rainfall totals 3-6 inches could bring localized flash flooding to areas along and east of US Hwy 17.



Very Dangerous Marine Conditions: Seas 15-20 ft and strong Gale to Storm Force winds possible. Powerful surf and minor erosion at the beaches.

Contact and Next Briefing Information



**Next Briefing can be
expected by 8 AM Saturday**

[Briefing Webpage](http://www.weather.gov/mhx/)



Web:

<http://www.weather.gov/mhx/>



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